

1 **WHAT IS CLAIMED IS:**

2 1. An auto-released hinge for a mobile phone comprising:
3 a barrel with two open ends, the barrel having a first flange formed inside the
4 barrel at the first open end, a first spiral slot defined in an inner wall of the first flange,
5 two stop slots defined in a middle portion of the barrel and at two diametrically opposite
6 inner sides, and two second spiral slots defined at two diametrically opposite inner sides
7 of the barrel and between the respective stop slots and the first flange;

8 a pintle rotatably received in the barrel, the pintle having a head formed at a first
9 end of the pintle and extending out from the first open end of the barrel, a second flange
10 formed adjacent a second end of the pintle and received in the barrel, a protrusion
11 formed at an outer periphery of the pintle and adjacent the head and received in the first
12 spiral slot, two ridges formed at two diametrically opposite sides of the pintle and
13 adjacent the second flange and respectively blocked in the stop slots;

14 a resilient member provided outside the second end of the pintle; and
15 a fastener positioned in the barrel to fasten the pintle and the resilient member in
16 the barrel.

17 2. The auto-released hinge as claimed in claim 1, wherein the first spiral slot
18 extends in a half circumference of the barrel.

19 3. The auto-released hinge as claimed in claim 1, wherein the barrel has two
20 openings defined through an outer periphery of the barrel and at the diametrically
21 opposite sides and adjacent the second open end, and the fastener has two wings
22 respectively positioned in the openings.

23 4. The auto-released hinge as claimed in claim 1 further comprising a button
24 mounted on the head of the pintle.